

FIG. 1

Companies Subject Area (ERD)

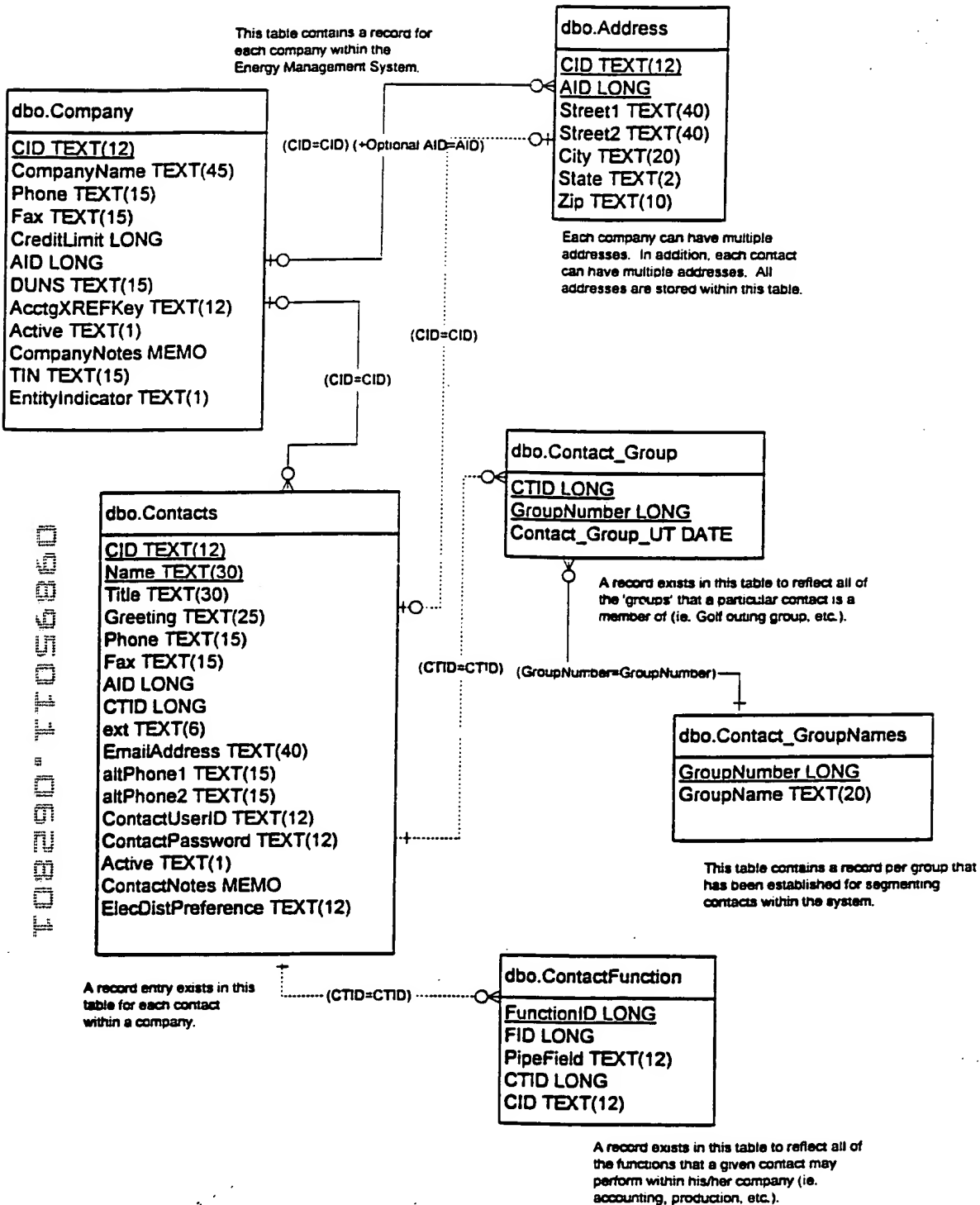


FIG. 3A

Contracts Subject Area (ERD)

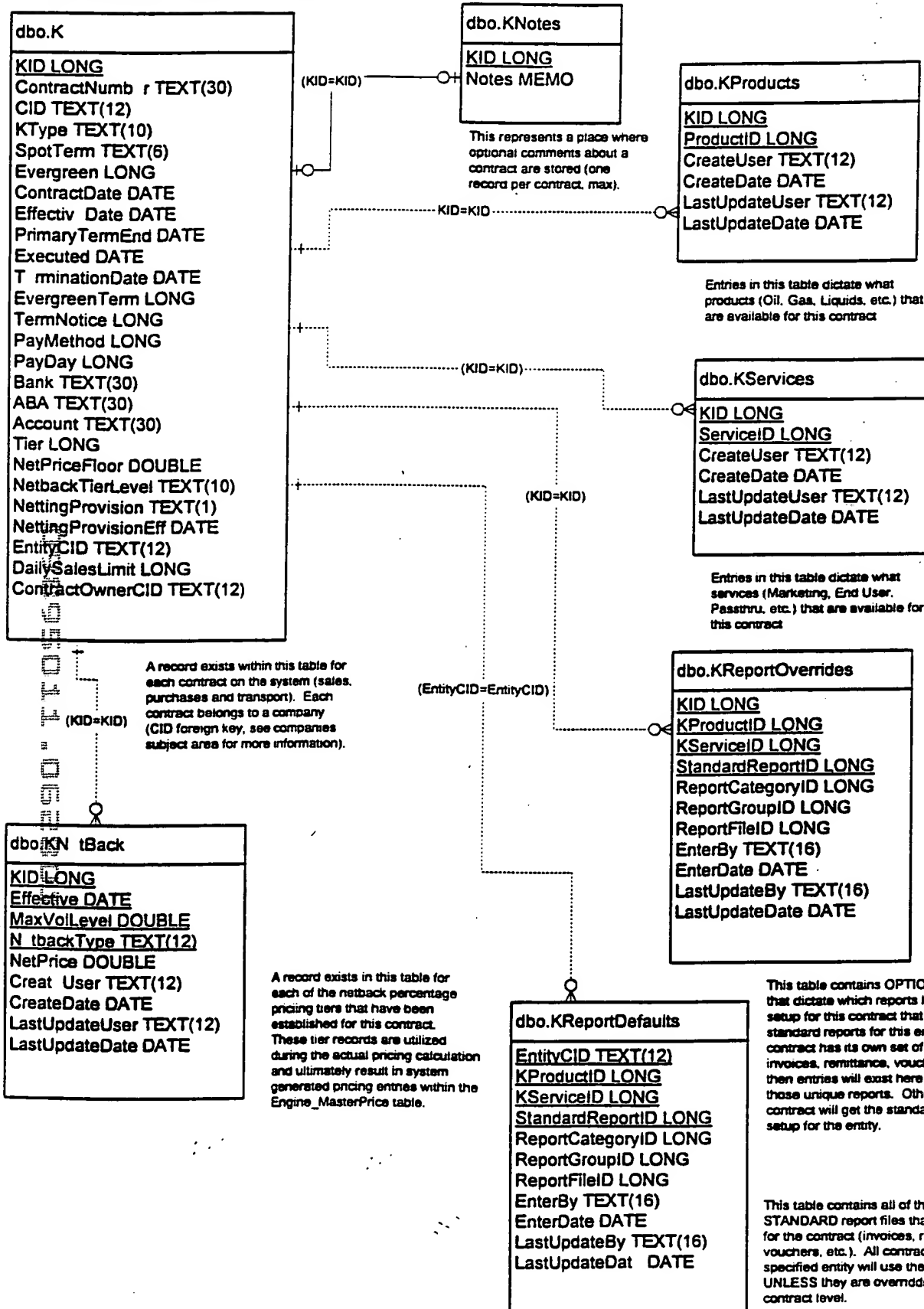
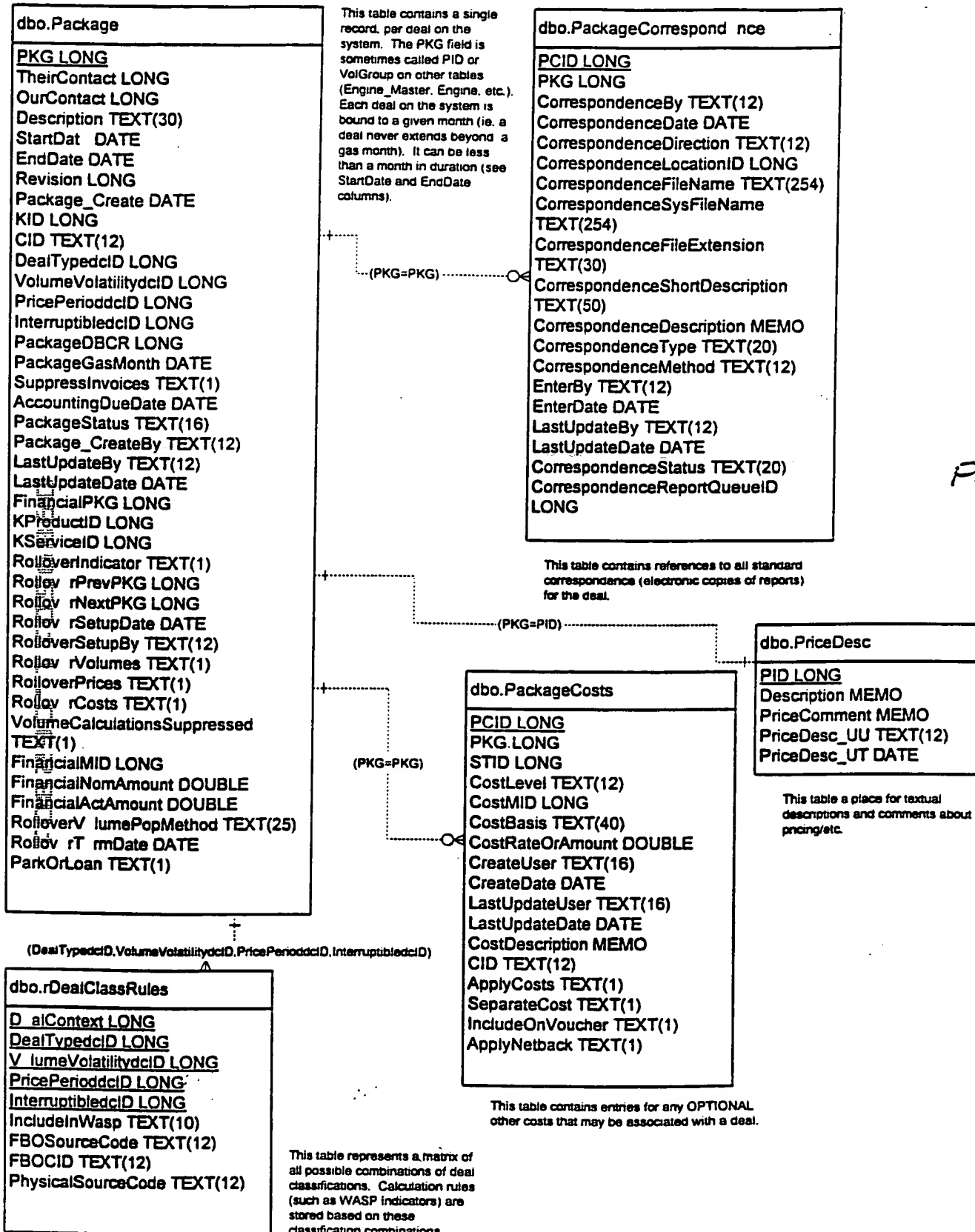
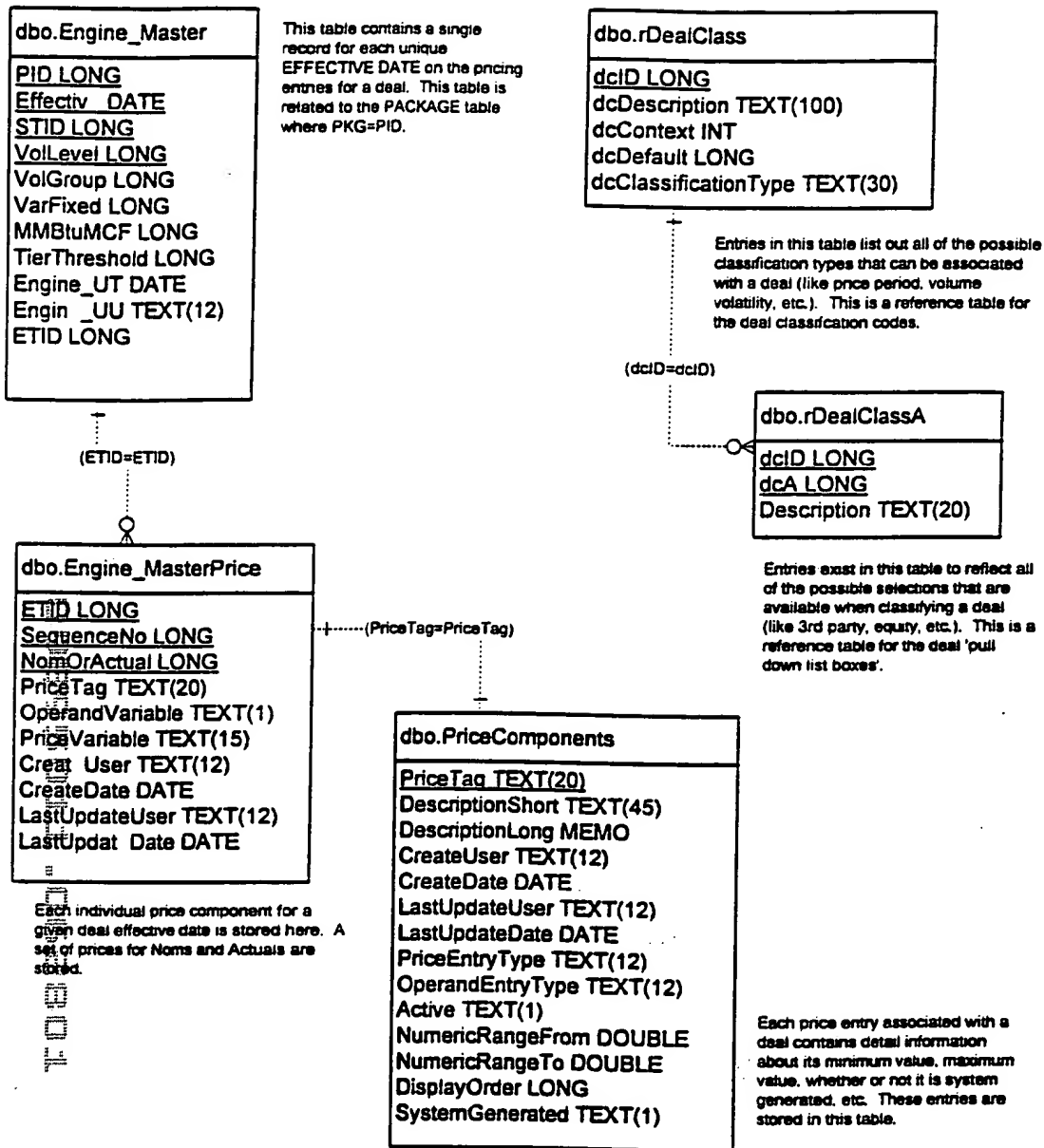


FIG. 30

Deals Subject Ar a (ERD) (1 of 2)



Deals Subject Ar a (ERD) (2 of 2)



Gas Inventory Subject Area (ERD) (1 of 2)

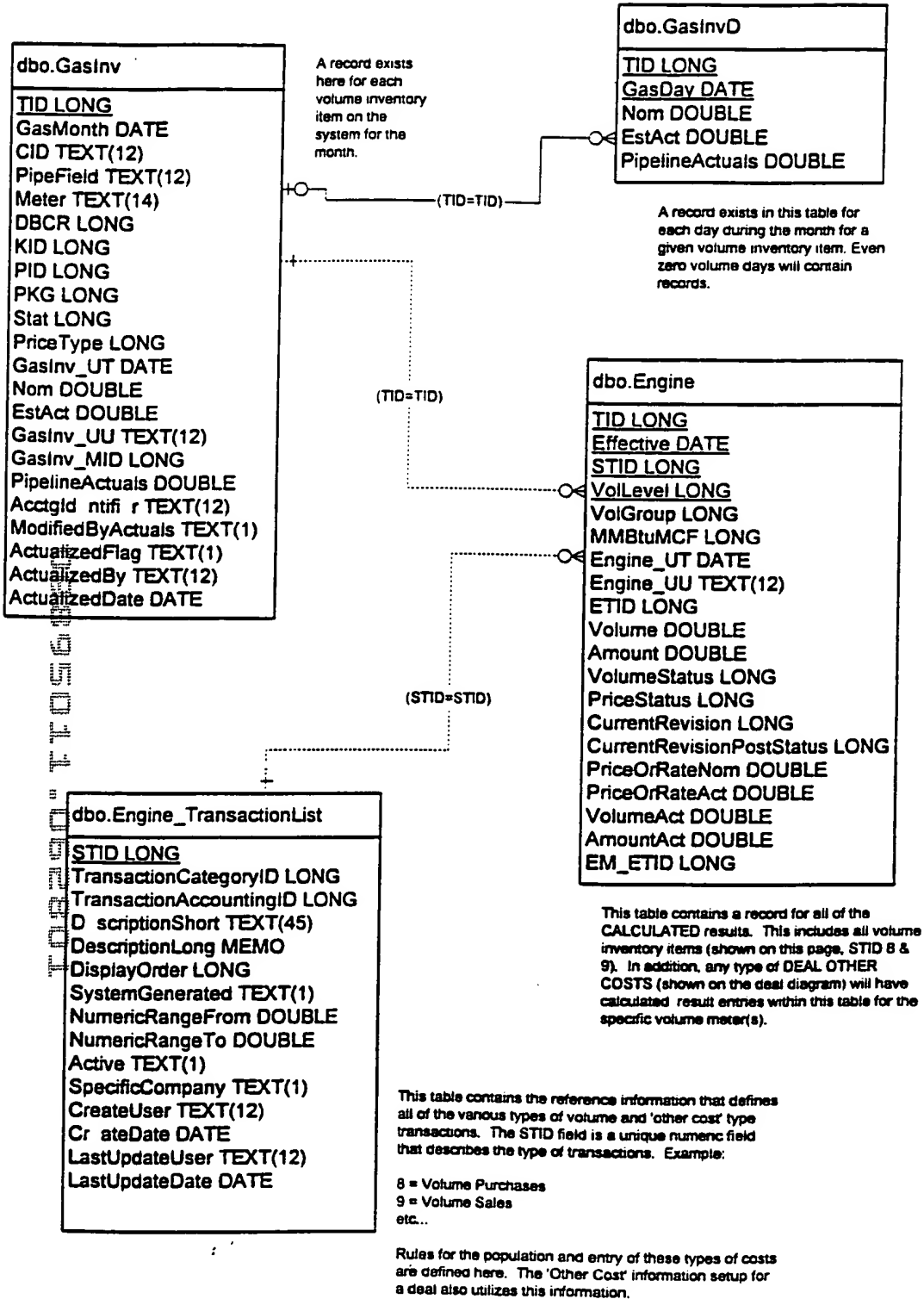


FIG. 3E

Gas Inventory Subj ct Ar a (ERD) (2 f 2)

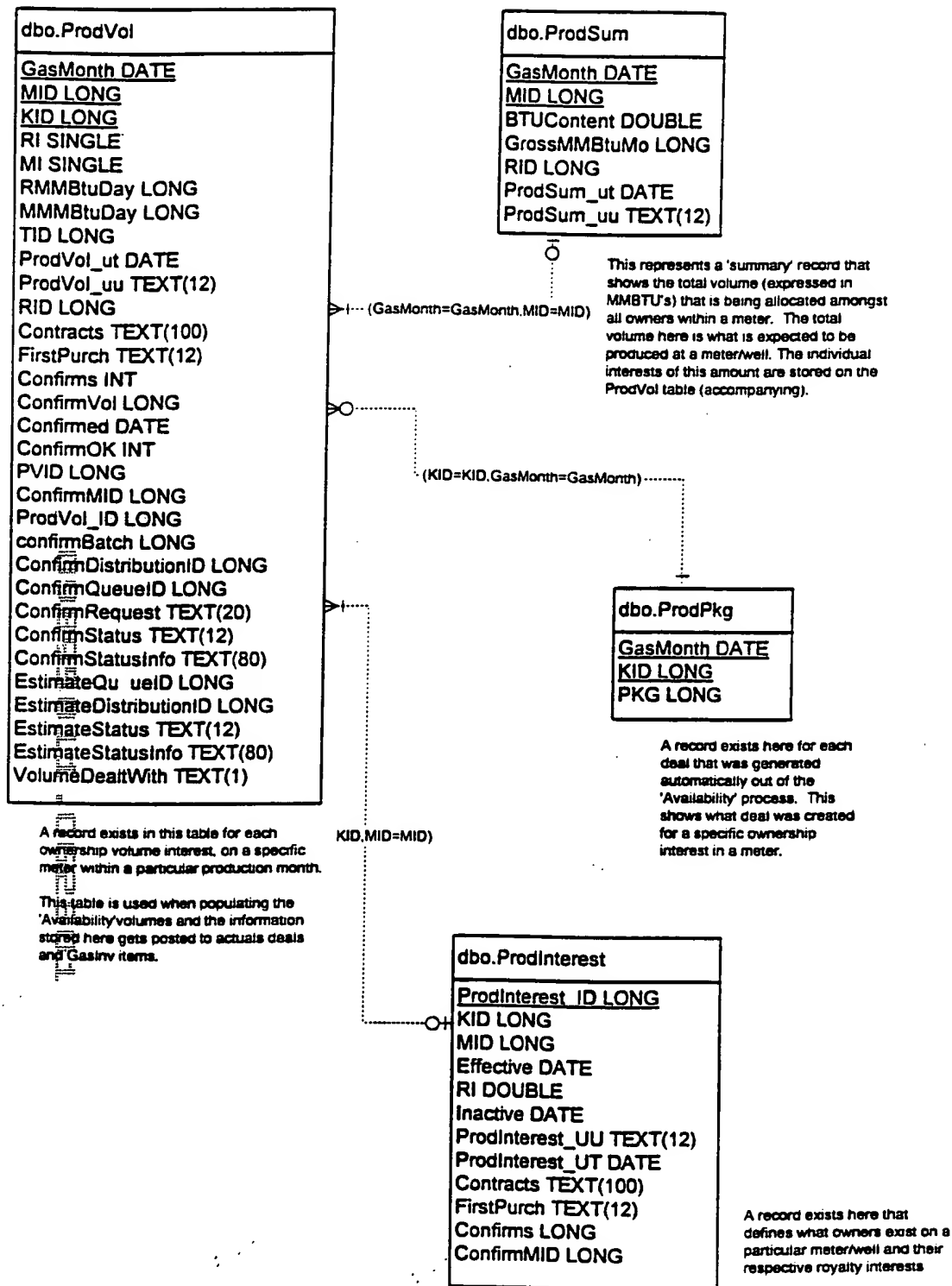


FIG. 3F

Operational Subject Area – 1 of 4 (ERD)

dbo.PrinterDef

PrinterNumber LONG
 DisplayName TEXT(80)
 ServerPrinterName TEXT(80)
 InternalPrinter TEXT(1)

All printers defined in the system are stored in this table.

dbo.ApplicationMessages

ApplicationMessageID LONG
 ApplicationMessageDate DATE
 ApplicationMessageText TEXT(255)

This table contains application messages that normally only print to the server console (for example when a calculation is running the messages are written here).

dbo.ExceptionCategories

ExceptionType TEXT(12)
ExceptionNo LONG
 ExceptionShort TEXT(45)
 ExceptionLong MEMO
 CreateUser TEXT(12)
 CreateDate DATE
 LastUpdateUser TEXT(12)
 LastUpdateDate DATE
 ExceptionOrder LONG

This table contains record entries for all of the possible exception reason categories defined within the system. These reasons are based on the type of exception that occurs ('Deal', 'Pricing', etc.).

dbo.LogTable

LogEntry LONG
 LogDateTime DATE
 LogInfo TEXT(254)

This table is used primarily for debugging purposes and is not utilized by any screen or reporting process.

dbo.ExceptionList

ExceptionListID LONG
ExceptionType TEXT(12)
ExceptionKey LONG
 ExceptionDate DATE
 ExceptionSequence LONG
 ExceptionEvent TEXT(45)
 ExceptionNo LONG
 ExceptionBy TEXT(12)
 ExceptionComments MEMO
 CreateUser TEXT(12)
 CreateDate DATE
 LastUpdateUser TEXT(12)
 LastUpdateDate DATE

This table contains the actual exception event entries. The ExceptionKey and sequence columns associate the exception to the entity based on type (i.e. PKGID would be the key for ExceptionType = 'DEAL').

Fig. 36

dbo.rGasMonth

GasMonth DATE
 CurrentStatus TEXT(20)
 CurrentSequence LONG
 CreateUser TEXT(12)
 CreateDate DATE
 LastUpdateUser TEXT(12)
 LastUpdateDate DATE
 LockedUser TEXT(12)
 LockedDate DATE

One record exists in this table for every production month in the system. In addition, this table contains the CURRENT status field ('Availability', 'Sales', etc.).

dbo.rGasMonthStatus

GasMonth DATE
CurrentSequence LONG
 Status TEXT(20)
 CreateUser TEXT(12)
 CreateDate DATE
 LastUpdateUser TEXT(12)
 LastUpdateDate DATE

This table represents an 'audit' table that captures the production month information EVERYTIME the status is changed. This provides for detail analysis on how long production months are left in a particular status.

(GasMonth=GasMonth)

Operational Subject Area - 2 f4 (ERD)

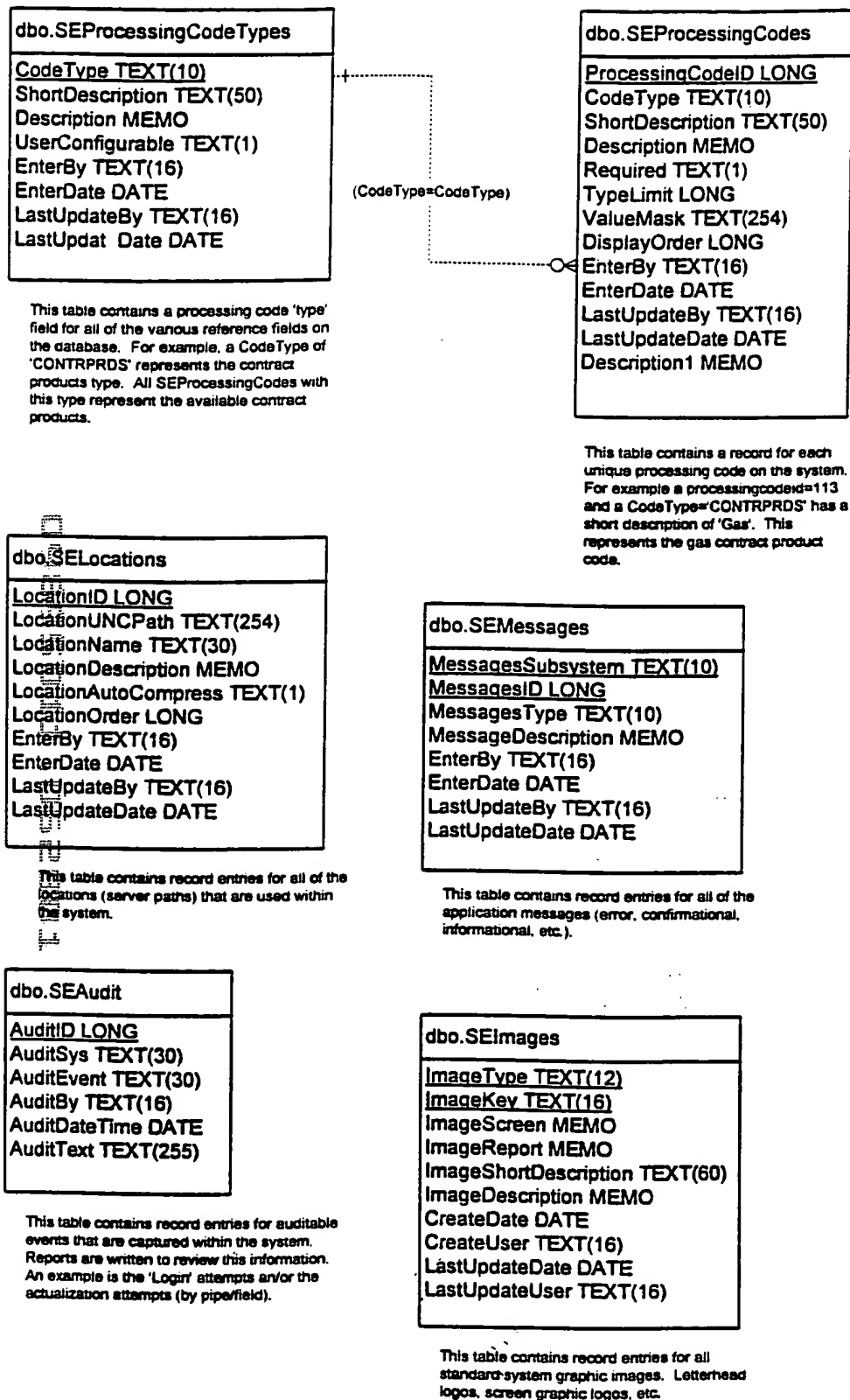


FIG. 314

Operational Subject Area – 3 of 4 (ERD)

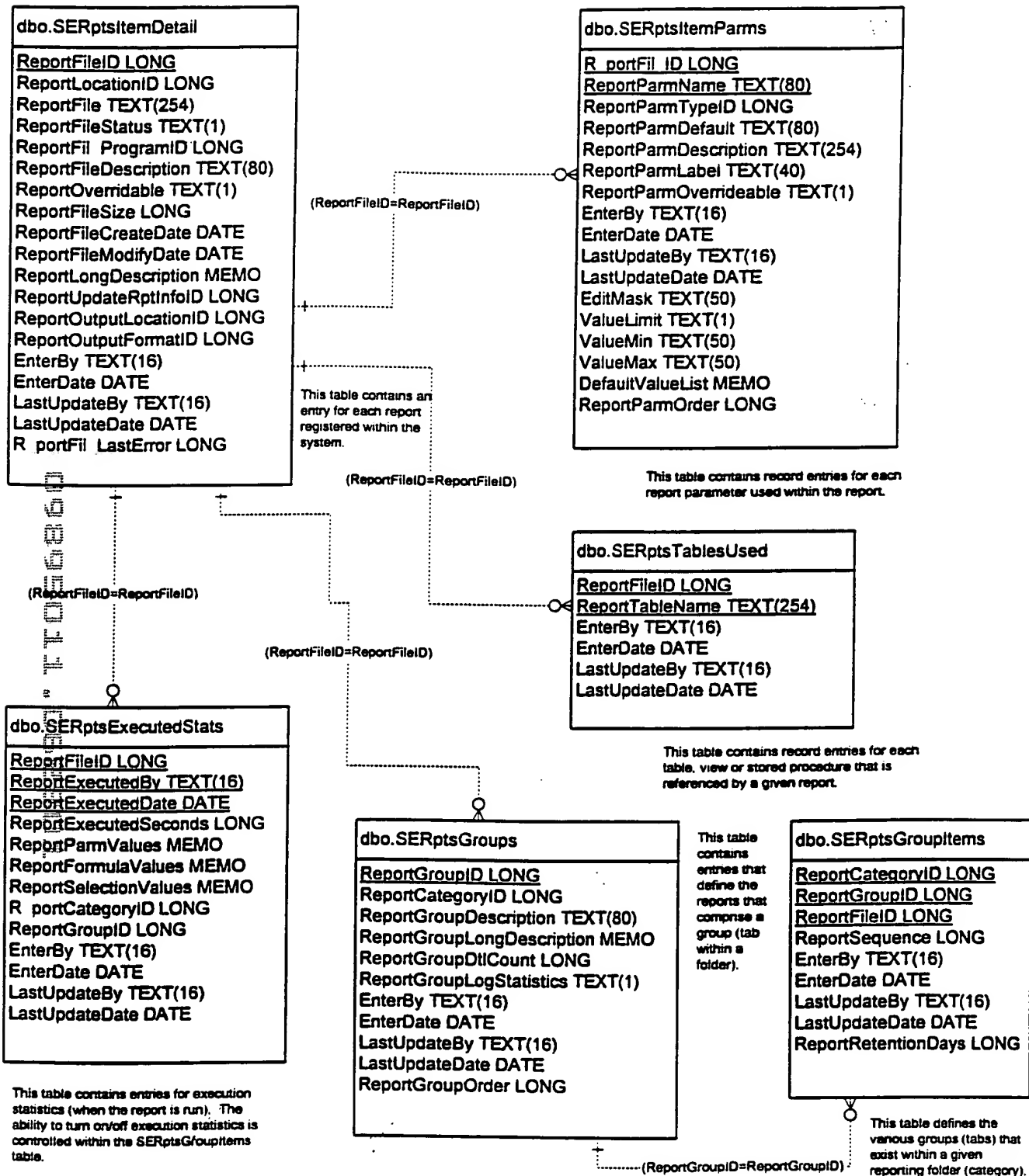


FIG. 32

Operational Subject Area – 4 of 4 (ERD)

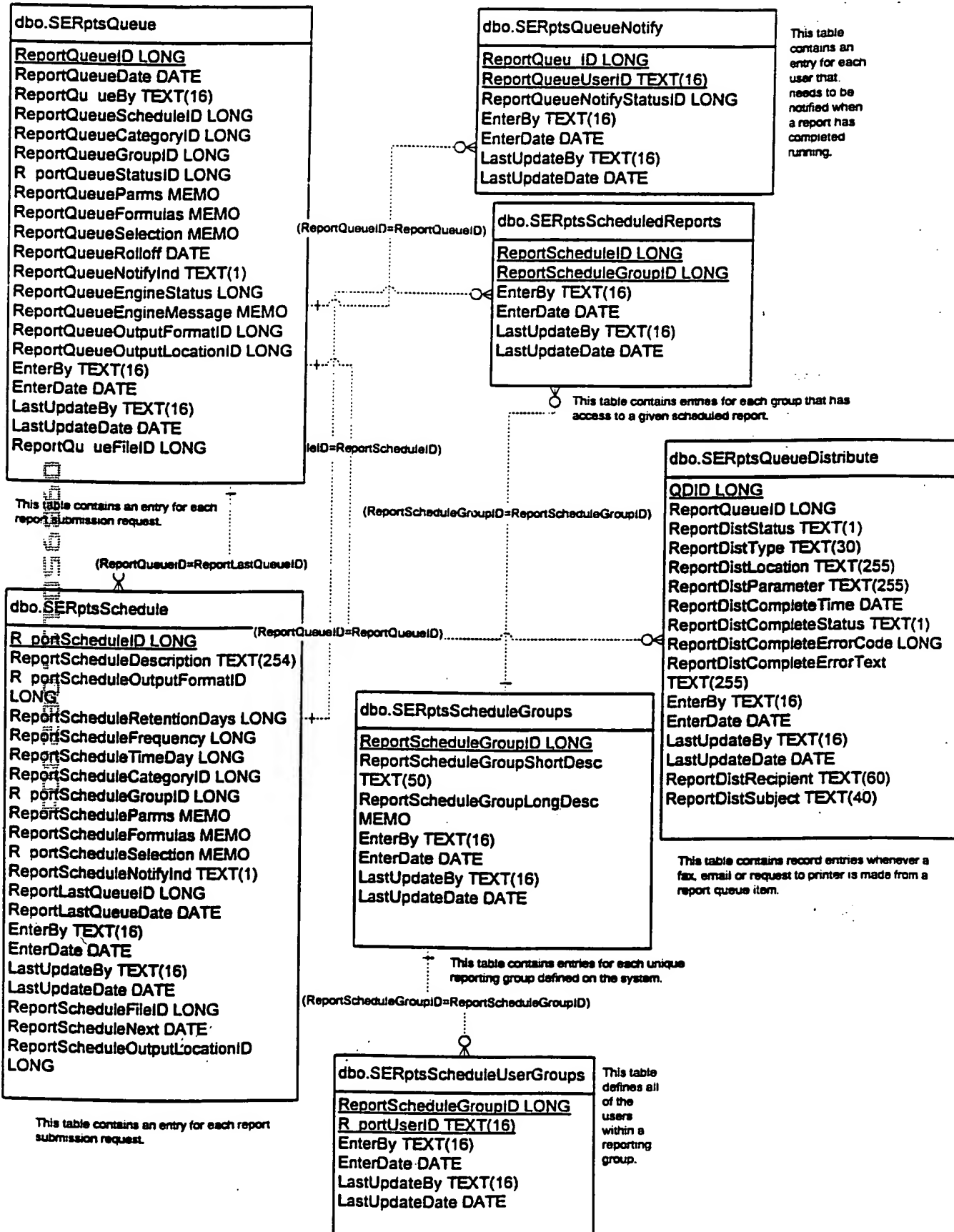


FIG. 35

Pipes & Meters Subject Area (ERD)

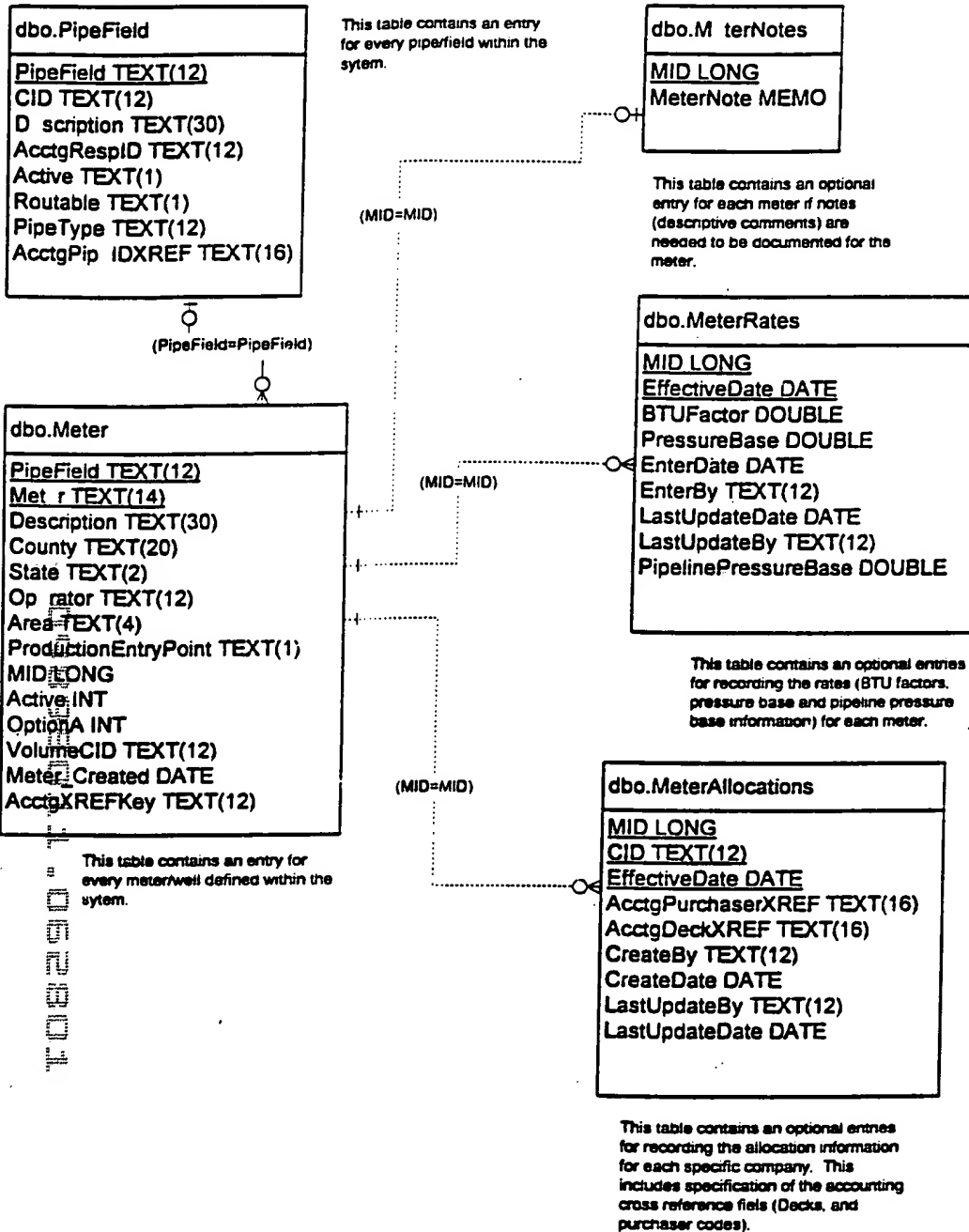


FIG. 3K

Pricing Subject Area (ERD)

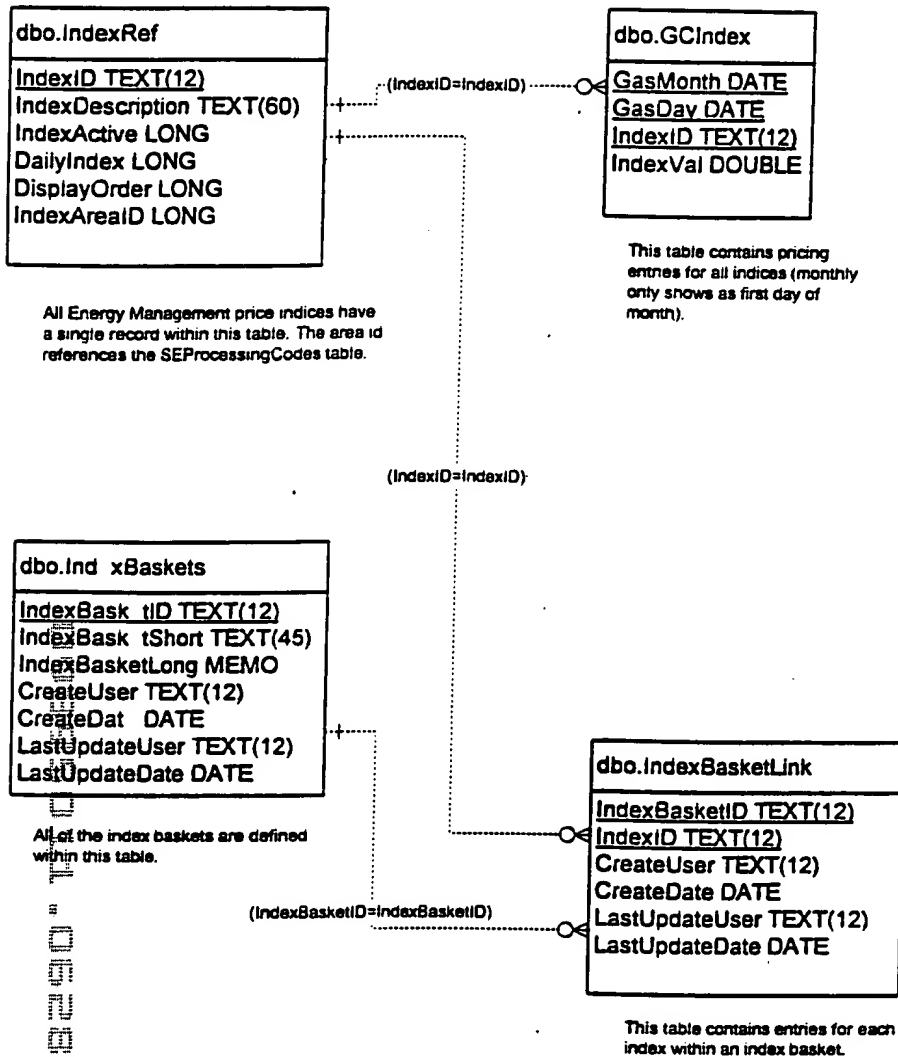


FIG. 3C

Routing Subject Area (ERD)

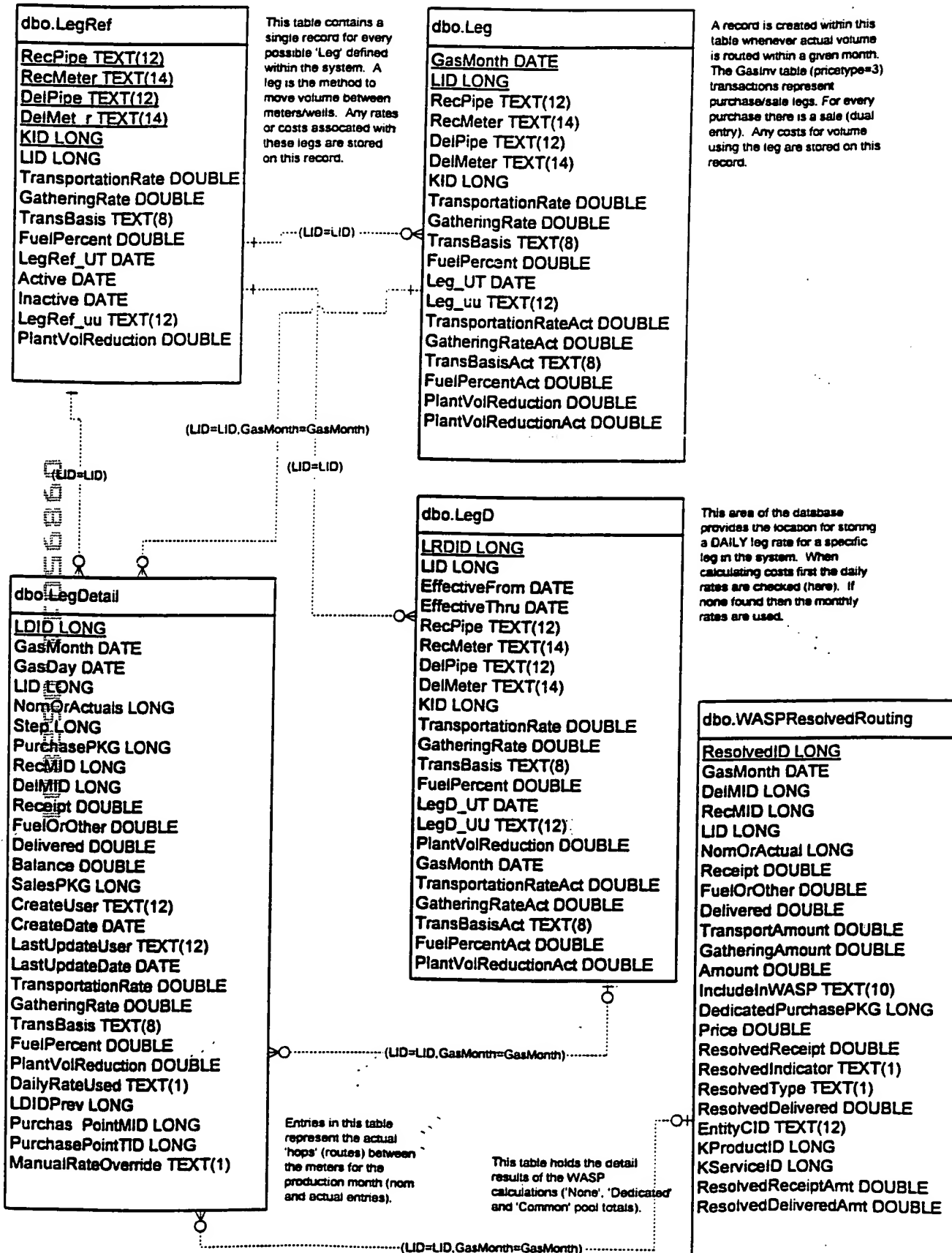


FIG. 3M

Security Subject Area (ERD)

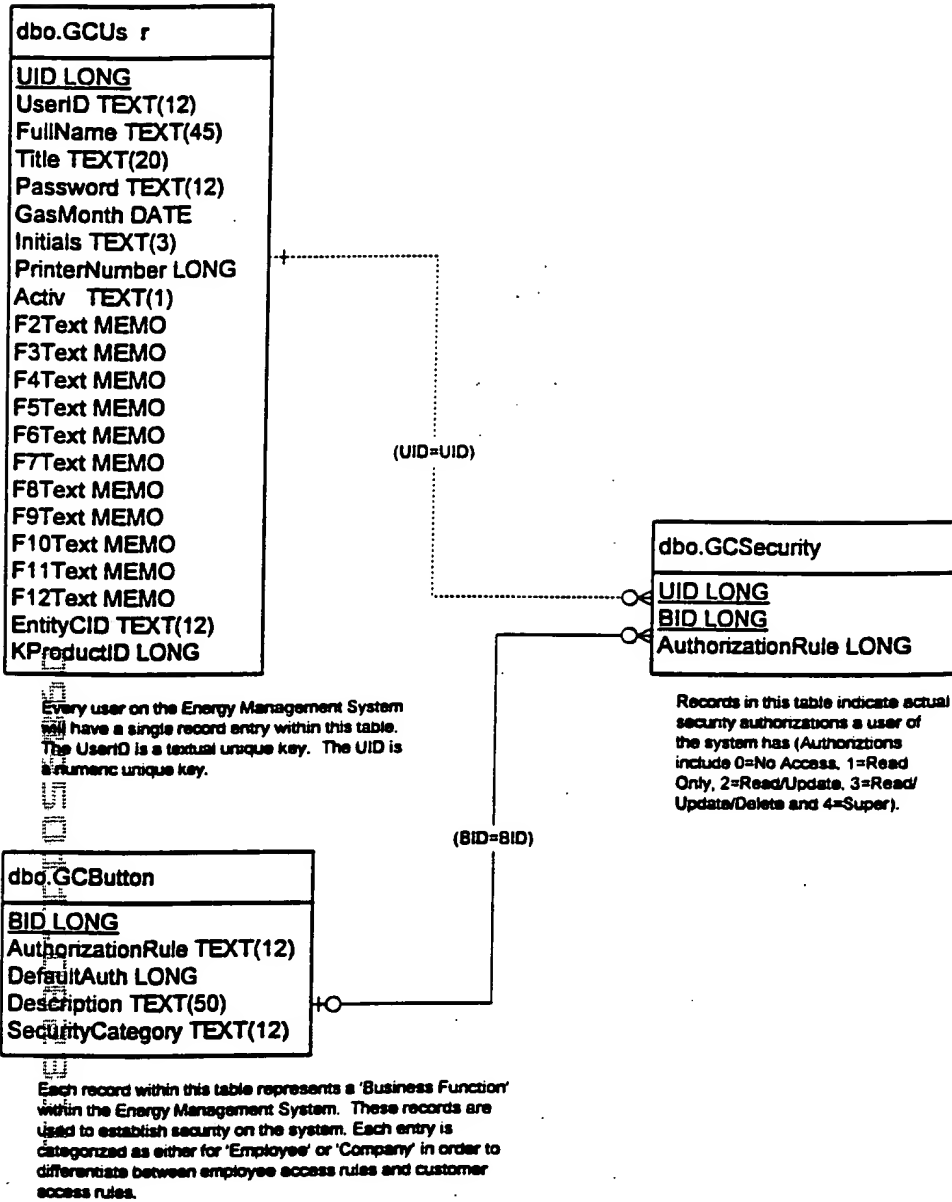



FIG. 3 N

TOB290" TOS5860

**Energy Management System**


Version
(5.06)


02/23/2001 12:53:49 pm | SUSAN


HEC | Gas


December, 2000 | Accounting


Printer: Accounting Printer


Personal


Price Index


Company


Availability


Deals


Routing


Accounting


System

Start

Energy Management System

Exit

Help

About

12:53 PM

ETG CIA

108290" TOS6860

Version
(5.06)

02/23/2001 12:54:37 pm SUSAN

HEC | Gas

December, 2000 | Accounting

Printer: Accounting Printer



Personal



Price Index



Company



Availability



Deals



Routing



Accounting



System

User Profile Detail - [Change]

General	F2 KEY	F3 KEY	F4 KEY	F5 KEY	F6 KEY	F7 KEY	F8 KEY	F9 KEY	F10 KEY
ID	SUSAN								
Full Name	Susan Sims								
Title	Dir. of Client Svcs								
Password	*****								
Month	December / 2000								
Entity	HEC								
Product	Gas								
Active?	<input checked="" type="checkbox"/>								
Initials	SS								
Printer Number	Accounting Printer								
Internal User ID	2448								





Ok Help Cancel


FOB290"TT056860


Energy Management System


Version:	02/23/2001	12:55:01 pm	SUSAN
(5.06)	HEC Gas		
December, 2000 Accounting			
Printer: Accounting Printer			


 Personal


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 Accounting

 System

- View Your Reports...
- Change Your Password...
- Customize Your System Properties...
- Exit

Report Name	Submit Date	Completion Status	Rolloff Date	Output Format	Error Code
Purchase and Sales By Comp	02/23/2001 12:50:50 PM	Completed	03/02/2001 12:50:50 PM	Acrobat Pdf	0
Sales by Product	02/23/2001 12:50:50 PM	Completed	03/02/2001 12:50:50 PM	Acrobat Pdf	0
Supply Volume by Roll-off Date	02/23/2001 12:50:50 PM	Completed	03/02/2001 12:50:50 PM	Acrobat Pdf	0
Material Allocation Report	02/23/2001 12:50:50 PM	Completed	03/02/2001 12:50:50 PM	Acrobat Pdf	0
Yardage Report	02/23/2001 12:50:50 PM	Completed	03/02/2001 12:50:50 PM	Acrobat Pdf	0
Vehicle Report	02/23/2001 12:50:50 PM	Completed	03/02/2001 12:50:50 PM	Acrobat Pdf	0
Machinist Report	02/23/2001 12:50:50 PM	Completed	03/02/2001 12:50:50 PM	Acrobat Pdf	0
Machine Hours by Job	02/23/2001 12:50:50 PM	Completed	03/02/2001 12:50:50 PM	Acrobat Pdf	0
Stational Sales File	02/23/2001 12:50:50 PM	Completed	03/02/2001 12:50:50 PM	Acrobat Pdf	0
Deal History by Region	02/23/2001 12:50:50 PM	Completed	03/02/2001 12:50:50 PM	Acrobat Pdf	0
Sales Leads by Region	02/23/2001 12:50:50 PM	Completed	03/02/2001 12:50:50 PM	Acrobat Pdf	0
Summary by Job	02/23/2001 12:50:50 PM	Completed	03/02/2001 12:50:50 PM	Acrobat Pdf	0
Cash and In Progress	02/23/2001 12:50:50 PM	Completed	03/02/2001 12:50:50 PM	Acrobat Pdf	0
WASP Detail	02/23/2001 12:50:50 PM	Completed	03/02/2001 12:50:50 PM	Acrobat Pdf	0
Rolling Details Ultimate Sales	02/23/2001 12:50:50 PM	Completed	03/02/2001 12:50:50 PM	Acrobat Pdf	0
WASP Detail	02/23/2001 12:50:50 PM	Completed	03/02/2001 12:50:50 PM	Acrobat Pdf	0
WASP Detail	02/23/2001 12:50:50 PM	Completed	03/02/2001 12:50:50 PM	Acrobat Pdf	0
WASP Detail	02/23/2001 12:50:50 PM	Completed	03/02/2001 12:50:50 PM	Acrobat Pdf	0
WASP Detail	02/23/2001 12:50:50 PM	Completed	03/02/2001 12:50:50 PM	Acrobat Pdf	0

Records: 18

 Refresh More

Lookup

Get Acrobat Reader

☒ Auto Refresh ?

(this will refresh
screen automatically
every 10 seconds)

 Submit Date (DESC) |

Energy Management System

Version: 02/23/2001 12:56:26 pm | SUSAN

(5.05) HEC | Gas

December, 2000 | Accounting

Printer: Accounting Printer

Personal

Price Index

Company

Availability

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Accounting

System

System Properties

Database Connection Properties

Default Window Properties

General

Application Image:

☒ Stretch?

☒ Transparent?

Updateable Non-Grid Fields

Protected Non-Grid Fields

Grid Title:

Updateable Grid Fields

Protected Grid Fields

SELECTED Grid Fields

Background Color:

Updateable Fields

Protected Fields

Grid Title Bar

Grid Updateable Fields

Grid Protected Fields

Grid Selected Fields

When you select OK all of your preferences will be automatically saved for you and used. These preferences will even be used if the application is exited and you return later.

OK

Cancel

Energy Management System

Version 02/23/2001 12:56:42 pm SUSAN
HEC | Gas
December, 2000 | Accounting
Printer: Accounting Printer

Price Index
Personal
Company
Availability
Deals
Routing
Accounting
System

- \$ Enter or Update Daily/Monthly Prices
- View (Graph) Price Index Information
- Add or Update Index Areas
- Add or Update an Index
- Add or Update an Index Basket
- Add or Update Price Index Exceptions
- Price Index Reports

FOR290" T1056860


Version
(5.06)


02/23/2001 12:57:28 pm | SUSAN


HEC | Gas


December, 2000 | Accounting


Printer: Accounting Printer


 Personal


 Price Index


 Company

 Availability

 Deals

 Rolling

 Accounting

 System

Daily Index Price Updates

Index	Name	Price
DCDEP(PB)I	Daily Gas Daily Midcontinent West Texas	\$6.2100
DCDNORTHES	Daily Gas Daily Midcontinent West Texas	\$6.1550
DCDNEWARK	Daily Gas Daily Midcontinent West Texas	
DCDTRANSAM	Daily Gas Daily Midcontinent West Texas	
DCDCARTHAGE	Daily Gas Daily Midcontinent West Texas	\$6.2100
DCDKOCHIEV	Daily Gas Daily Midcontinent West Texas	\$6.1750
DCDLSTAN	Daily Gas Daily Midcontinent West Texas	\$6.0000
DCDMRTNL	Daily Gas Daily Midcontinent West Texas	\$6.0300
DCDMRTNL	Daily Gas Daily Midcontinent West Texas	\$6.3150
DCDMRTNL	Daily Gas Daily Midcontinent West Texas	\$6.2700
DCDNOPLEPOK	Daily Gas Daily Midcontinent West Texas	\$6.2100
DCDNOPLEPOK	Daily Gas Daily Midcontinent West Texas	\$6.2050
DCDENNIS 60	Daily Gas Daily Midcontinent West Texas	\$6.1900


You may change the price (if you have security privileges)


Display Order

Records: 211

< LOOKUP >


Friday - 12/01/2000






























Worksheet Copy

Help

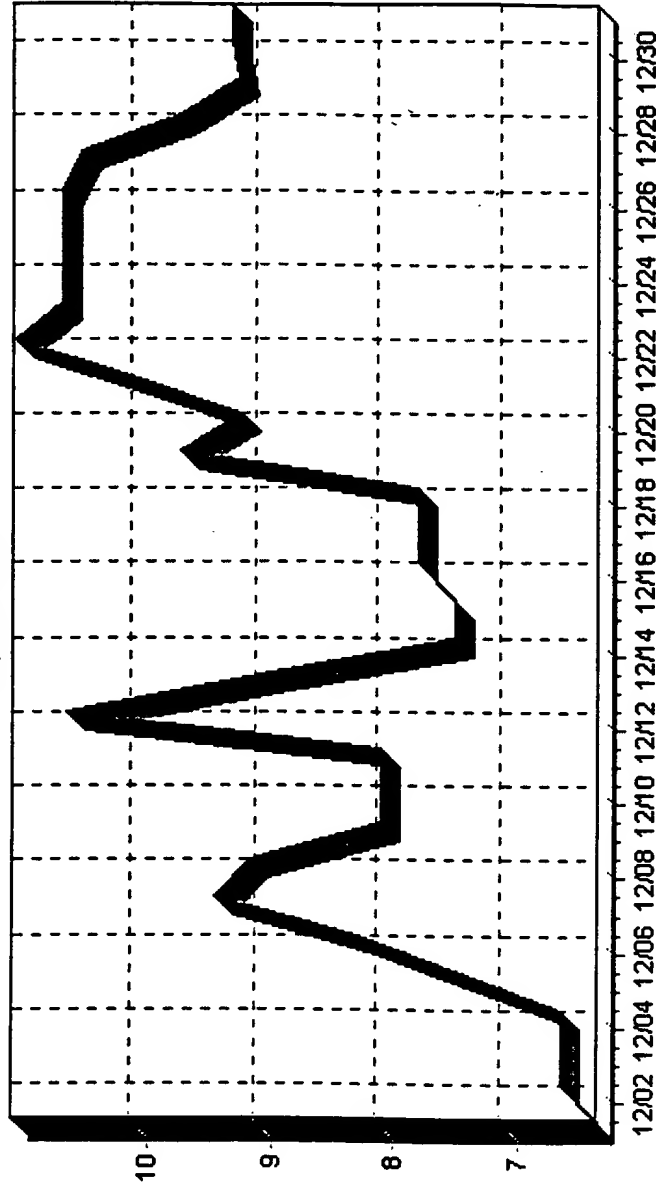
Exit

Index Prices By Month

Daily Gas Daily Midpoint El Paso Permian

Index:

Day	Price
12/01/2000	\$6.2100
12/05/2000	\$6.2500
12/06/2000	\$6.1000
12/07/2000	\$6.1000
12/08/2000	\$6.1000
12/09/2000	\$6.2500
12/10/2000	\$6.1500
12/11/2000	\$6.1000
12/12/2000	\$6.1000
12/13/2000	\$6.0500
12/14/2000	\$6.0500
12/15/2000	\$6.0500
12/16/2000	\$6.0500
12/17/2000	\$6.0500
12/18/2000	\$6.0500
12/19/2000	\$6.0500
12/20/2000	\$6.0500
12/21/2000	\$6.0500
12/22/2000	\$6.0500
12/23/2000	\$6.0500
12/24/2000	\$6.0500
12/25/2000	\$6.0500
12/26/2000	\$6.0500
12/27/2000	\$6.0500
12/28/2000	\$6.0500
12/29/2000	\$6.0500
12/30/2000	\$6.0500
12/31/2000	\$6.0500



 Refresh More

Day

OK

X **Cancel**

[illegible][illegible]

708290" T056860

Energy Management System

Version
(5.06)

02/23/2001 12:58:58 pm SUSAN

HEC | Gas

December, 2000 | Accounting

Printer: Accounting Printer



Personal



Price Index



Company



Availability



Deals



Routing



Accounting



System

Enter Production Volumes

Produce Production Confirms

Availability Reports



Energy Management



12:58 PM

CTV 44

Energy Management System

Version: 02/23/2001 01:01:10 pm | SUSAN
 HEC | Gas
 December, 2000 | Accounting

Deal Details - (Change)

Deal ID	66028	Classification	12/23-31 3TEC
Product	Gas	Service	Marketing
Month	December / 2000	Status	Accounting Phase
Contract	3TEC Energy Corporation	Start Date	12/23/2000
	3TEC OIL & GAS PURCHASE	End Date	12/31/2000
		Created	CONFIRMED

Rollover Rules | Correspondence | [Financial Overview](#)
 General | Volumes | Prices | [Calculation Results](#) | Audit Information

Our Contact: Janna Calhoun, 713-821-7107

Our Contact: Leslie Vandagriff, 214-954-1430
lvandagriff@highlandenergy.com

Description: \$5.89* MANUAL NB .99

Comments: Due:

All information relevant to this particular deal is shown on this screen. You have the option of directly changing this information (dependent on status of the month).

OK Help Cancel

T03290" T056860

Energy Management System

Version
(5.06)

02/23/2001 12:59:49 pm | SUSAN

HEC | Gas

December, 2000 | Accounting

Printer: Accounting Printer

Personal

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Company

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Deals

Routing

Accounting

System

Define Legs...

Leg History (Monthly Rates)...

Leg Daily Rates...

Pipes/Fields...

Meters/Wells...

Routing Reports...

Preferences

Propagate to End of Month?

Auto Adjust Changes?

Start

Energy Management

12:59 PM

Page 1 of 1

1002290" T T 056860

Energy Management System

Version
(5.06)


02/23/2001 01:00:04 pm. SUSAN

HEC | Gas

December, 2000 | Accounting

Printer: Accounting Printer



-  (Step 1 of 4) - Enter Pipe/Fed Actuals
-  (Step 2 of 4) - Balance Purchase Meters/Wells
-  (Step 3 of 4) - Balance Sales Meters/Wells
-  (Step 4 of 4) - Adjust Imbalances/Cashouts

Actualization Steps

 Export 06SY's Files

 Transaction Accounts

 Transaction Categories

 Transaction List

 Accounting Reports



Energy Management



1:00 PM

Enter Pipe/Field Actuals

Month: **December / 2000** ☒ **Purchases** ☒

Transacted By: **Company**

Volume Allocation: **1 000000**

From: **1** To: **31**

Columbia Gulf Transmission

Day	Mon	Actual
Dec 01		
Dec 02		
Dec 03		
Dec 04		
Dec 05		
Dec 06		
Dec 07		
Dec 08		
Dec 09		
Dec 10		
Dec 11		
Dec 12		
Dec 13		
Dec 14		
Dec 15		
Dec 16		
Dec 17		
Dec 18		
Dec 19		
Dec 20		
Dec 21		
Dec 22		
Dec 23		
Dec 24		
Dec 25		
Dec 26		
Dec 27		
Dec 28		
Dec 29		
Dec 30		
Dec 31		

Meter/Well	Description	Deal	Act. ?	Actuals	Company
1	1000000		<input checked="" type="checkbox"/>		
2	1000000		<input checked="" type="checkbox"/>		
3	1000000		<input checked="" type="checkbox"/>		
4	1000000		<input checked="" type="checkbox"/>		
5	1000000		<input checked="" type="checkbox"/>		
6	1000000		<input checked="" type="checkbox"/>		
7	1000000		<input checked="" type="checkbox"/>		
8	1000000		<input checked="" type="checkbox"/>		
9	1000000		<input checked="" type="checkbox"/>		
10	1000000		<input checked="" type="checkbox"/>		
11	1000000		<input checked="" type="checkbox"/>		
12	1000000		<input checked="" type="checkbox"/>		
13	1000000		<input checked="" type="checkbox"/>		
14	1000000		<input checked="" type="checkbox"/>		
15	1000000		<input checked="" type="checkbox"/>		
16	1000000		<input checked="" type="checkbox"/>		
17	1000000		<input checked="" type="checkbox"/>		
18	1000000		<input checked="" type="checkbox"/>		
19	1000000		<input checked="" type="checkbox"/>		
20	1000000		<input checked="" type="checkbox"/>		
21	1000000		<input checked="" type="checkbox"/>		
22	1000000		<input checked="" type="checkbox"/>		
23	1000000		<input checked="" type="checkbox"/>		
24	1000000		<input checked="" type="checkbox"/>		
25	1000000		<input checked="" type="checkbox"/>		
26	1000000		<input checked="" type="checkbox"/>		
27	1000000		<input checked="" type="checkbox"/>		
28	1000000		<input checked="" type="checkbox"/>		
29	1000000		<input checked="" type="checkbox"/>		
30	1000000		<input checked="" type="checkbox"/>		
31	1000000		<input checked="" type="checkbox"/>		

You have the option of either entering the daily actual volumes directly next to their respective day (right side left) OR to use the volume allocation panel of the (right center of the window).

Pipe/Field and meter/well actual totals at bottom should match your

Right click the meter/well and to see other options

Help **Exit**

T08290" T056860

Energy Management System

Version (5.08)

02/23/2001 01:00:21 pm | SUSAN

HEC | Gas

December, 2000 | Accounting

Printer: Accounting Printer

Availability

Monthly Status

Monthly Status Exception Reason Codes

Production Control Center Messages

Locations

Processing Code Unlocks

Printers

Application Manager

Security

Management Reports

System Reports

Standard Report Types

Help

About the Energy Management System

Company

Price Index

Personal

Setup Users

Setup System Functions

Update User Security Rules

Accounting

Rolling

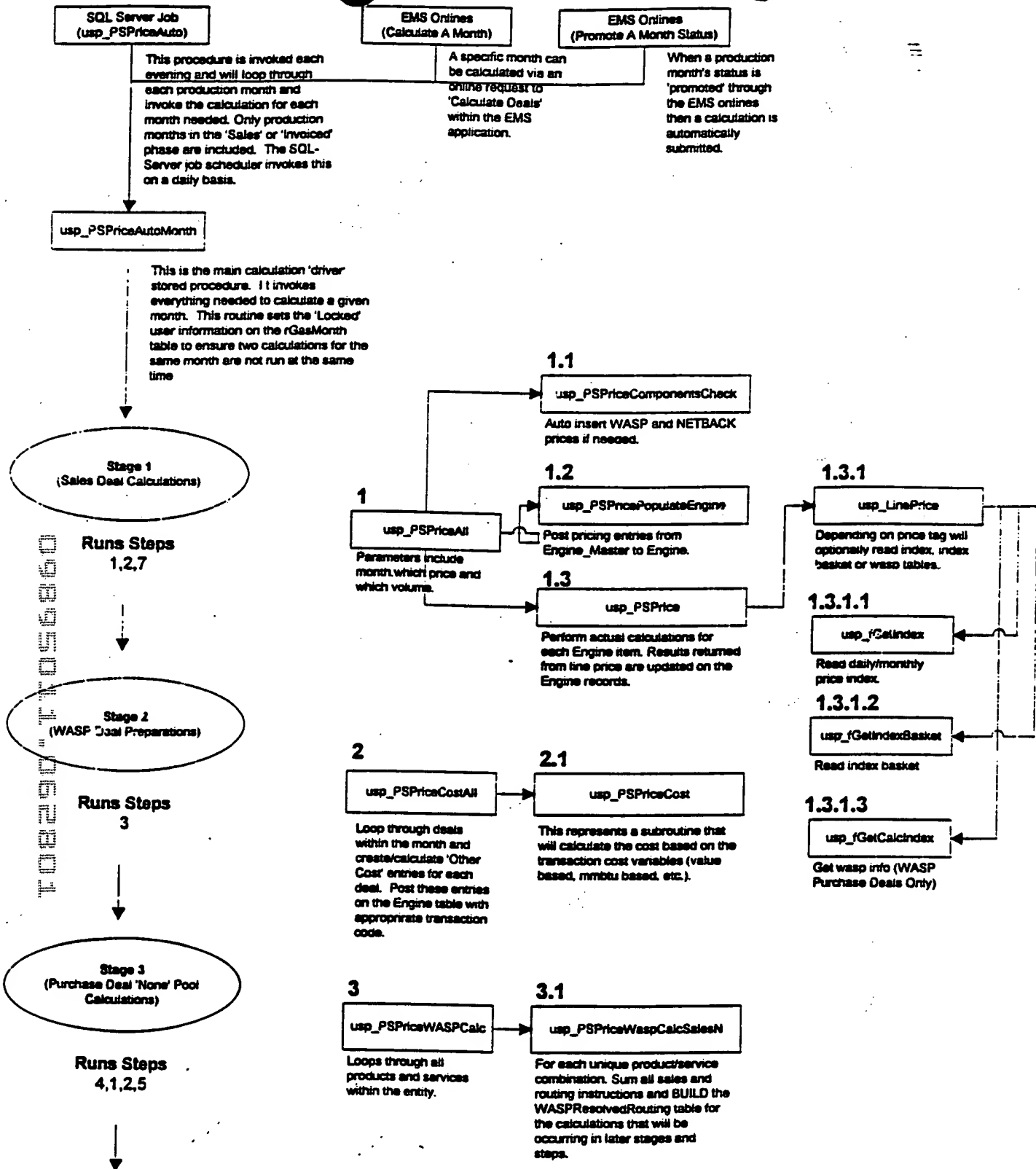
Deals

Start

Energy Management

1:00 PM

WASP Calculation Diagram (1)



continued on next page.

FIG. 5A